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NEWS 2 "Ask CAS" for self-help around the clock  
NEWS 3 SEP 09 CA/CAPLUS records now contain indexing from 1907 to the  
present  
NEWS 4 DEC 08 INPADOC: Legal Status data reloaded  
NEWS 5 SEP 29 DISSABS now available on STN  
NEWS 6 OCT 10 PCTFULL: Two new display fields added  
NEWS 7 OCT 21 BIOSIS file reloaded and enhanced  
NEWS 8 OCT 28 BIOSIS file segment of TOXCENTER reloaded and enhanced  
NEWS 9 NOV 24 MSDS-CCOHS file reloaded  
NEWS 10 DEC 08 CABA reloaded with left truncation  
NEWS 11 DEC 08 IMS file names changed  
NEWS 12 DEC 09 Experimental property data collected by CAS now available  
in REGISTRY  
NEWS 13 DEC 09 STN Entry Date available for display in REGISTRY and CA/CAPLUS  
NEWS 14 DEC 17 DGENE: Two new display fields added  
NEWS 15 DEC 18 BIOTECHNO no longer updated  
NEWS 16 DEC 19 CROPU no longer updated; subscriber discount no longer  
available  
NEWS 17 DEC 22 Additional INPI reactions and pre-1907 documents added to CAS  
databases  
NEWS 18 DEC 22 IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields  
NEWS 19 DEC 22 ABI-INFORM now available on STN  
NEWS 20 JAN 27 Source of Registration (SR) information in REGISTRY updated  
and searchable  
NEWS 21 JAN 27 A new search aid, the Company Name Thesaurus, available in  
CA/CAPLUS  
NEWS 22 FEB 05 German (DE) application and patent publication number format  
changes  
  
NEWS EXPRESS DECEMBER 28 CURRENT WINDOWS VERSION IS V7.00, CURRENT  
MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),  
AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003  
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FILE 'HOME' ENTERED AT 16:17:14 ON 02 MAR 2004

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 16:17:31 ON 02 MAR 2004

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STRUCTURE FILE UPDATES: 1 MAR 2004 HIGHEST RN 656797-92-1

DICTIONARY FILE UPDATES: 1 MAR 2004 HIGHEST RN 656797-92-1

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

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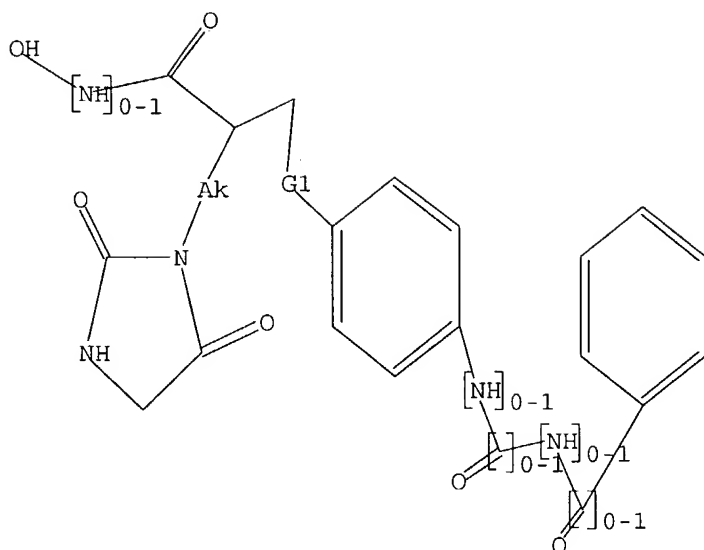
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L1 STRUCTURE UPLOADED

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L1 HAS NO ANSWERS

L1 STR



G1 S, SO2

Structure attributes must be viewed using STN Express query preparation.

=&gt; s l1 sss full

FULL SEARCH INITIATED 16:18:00 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 90 TO ITERATE

100.0% PROCESSED 90 ITERATIONS

5 ANSWERS

SEARCH TIME: 00.00.01

L2 5 SEA SSS FUL L1

=&gt; file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

155.42

155.63

FILE 'CAPLUS' ENTERED AT 16:18:05 ON 02 MAR 2004

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FILE COVERS 1907 - 2 Mar 2004 VOL 140 ISS 10

Patel

&lt;3/2/2004&gt;

FILE LAST UPDATED: 1 Mar 2004 (20040301/ED)

This file contains CAS Registry Numbers for easy and accurate  
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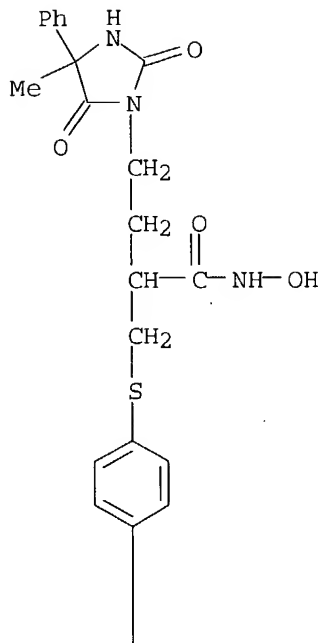
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L3 2 L2

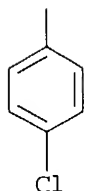
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L3 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2002:89041 CAPLUS  
DN 136:386093  
TI Solid-phase synthesis of  $\alpha$ -substituted 3-bisarylthio N-Hydroxy  
propionamides as Specific MMP Inhibitors  
AU Chollet, Anne-Marie; Le Diguarher, Thierry; Kucharczyk, Nathalie; Loynel,  
Armelle; Bertrand, Marc; Tucker, Gordon; Guilbaud, Nicolas; Burbridge,  
Mike; Pastoureau, Philippe; Fradin, Armel; Sabatini, Massimo; Fauchere,  
Jean-Luc; Casara, Patrick  
CS Institut de Recherches Servier, Croissy sur Seine, 78290, Fr.  
SO Bioorganic & Medicinal Chemistry (2002), 10(3), 531-544  
CODEN: BMECEP; ISSN: 0968-0896  
PB Elsevier Science Ltd.  
DT Journal  
LA English  
IT **427895-42-9P**  
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL  
(Biological study); PREP (Preparation)  
(preparation of 2-[[[4'-chloro-[1,1'-biphenyl]-4-yl]thio]methyl]-N-  
hydroxybutanamide derivs. as specific metalloproteinase inhibitors)  
RN 427895-42-9 CAPLUS  
CN 1-Imidazolidinebutanamide,  $\alpha$ -[[[4'-chloro[1,1'-biphenyl]-4-  
yl]thio]methyl]-N-hydroxy-4-methyl-2,5-dioxo-4-phenyl- (9CI) (CA INDEX  
NAME)

PAGE 1-A



PAGE 2-A



AB A novel series of potent and specific MMP-2,3,9,13 inhibitors has been obtained by modulation on solid phase by  $\alpha$  and aryl substitutions on 3-arylthio-N-hydroxy-propionamides starting from itaconic acid. Example compds. thus prepared and evaluated included  $\alpha$ -[[[1,1'-biphenyl]-4-ylthio)methyl]-N-hydroxy-4-oxo-1,2,3-benzotriazine-3(4H)-butanamide, and derivs. and analogs thereof, such as  $\alpha$ -[[[4'-chloro[1,1'-biphenyl]-4-yl)thio)methyl]-N-hydroxy-4-oxo-1,2,3-benzotriazine-3(4H)-butanamide, N-hydroxy-4-oxo- $\alpha$ -[[[4-(3-thienyl)phenyl]thio)methyl]-1,2,3-benzotriazine-3(4H)-butanamide, N-hydroxy-4-oxo- $\alpha$ -[[[4-(3-pyridinyl)phenyl]thio)methyl]-1,2,3-benzotriazine-3(4H)-butanamide, N-hydroxy-4-oxo- $\alpha$ -[[[4-(5-pyrimidinyl)phenyl]thio)methyl]-1,2,3-benzotriazine-3(4H)-butanamide,  $\alpha$ -[[[4'-chloro[1,1'-biphenyl]-4-yl)thio)methyl]-N-hydroxy-2H-isoinidole-2-butanamide,  $\alpha$ -[[[4'-chloro[1,1'-biphenyl]-4-yl)thio)methyl]-N-hydroxy-4-oxo-3(4H)-quinazolinebutanamide, etc.

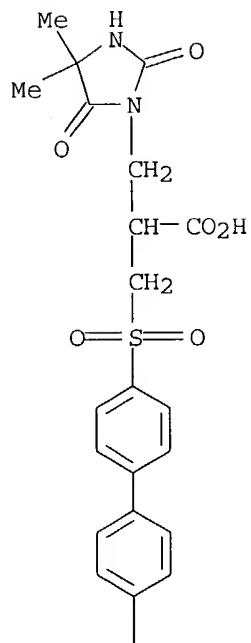
RE.CNT 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2001:63965 CAPLUS  
 DN 134:131252  
 TI Preparation of 3-arylsulfonyl-2-(substituted methyl)propanoic acid derivatives as matrix metalloproteinase inhibitors  
 IN Mantegani, Sergio; Abrate, Francesca; Bissolino, Pierluigi; Cremonesi, Paolo; Perrone, Ettore; Jabes, Daniela  
 PA Pharmacia and Upjohn Spa, Italy  
 SO PCT Int. Appl., 68 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

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PI	WO 2001005756	A1	20010125	WO 2000-EP6429	20000707
	W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
				GB 1999-16562 A	19990714
	EP 1200398	A1	20020502	EP 2000-954443	20000707
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL			
				GB 1999-16562 A	19990714
				WO 2000-EP6429 W	20000707
	JP 2003505367	T2	20030212	JP 2001-511417	20000707
				GB 1999-16562 A	19990714
				WO 2000-EP6429 W	20000707
OS	MARPAT 134:131252				
IT	<b>321584-56-9P 321584-58-1P 321584-60-5P 321584-62-7P</b>				
	RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)				
	(preparation of 3-arylsulfonyl-2-(substituted methyl)propanoic acid derivs. as matrix metalloproteinase inhibitors)				
RN	321584-56-9 CAPLUS				
CN	1-Imidazolidinepropanoic acid, $\alpha$ -[[[4'-chloro[1,1'-biphenyl]-4-yl)sulfonyl)methyl]-4,4-dimethyl-2,5-dioxo- (9CI) (CA INDEX NAME)				

PAGE 1-A

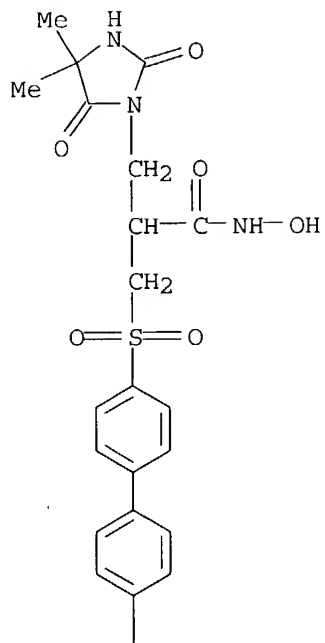


PAGE 2-A



RN 321584-58-1 CAPLUS  
CN 1-Imidazolidinepropanamide,  $\alpha$ -[[[4'-chloro[1,1'-biphenyl]-4-yl)sulfonyl)methyl]-N-hydroxy-4,4-dimethyl-2,5-dioxo- (9CI) (CA INDEX NAME)

PAGE 1-A



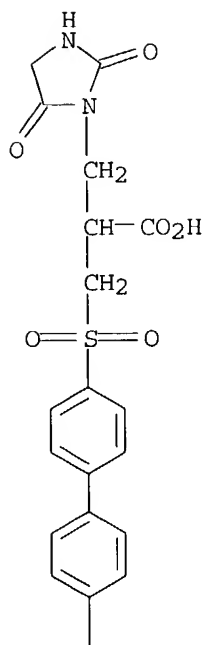
PAGE 2-A



RN 321584-60-5 CAPLUS  
CN 1-Imidazolidinepropanoic acid, α-[[[4'-chloro[1,1'-biphenyl]-4-yl)sulfonyl]methyl]-2,5-dioxo- (9CI) (CA INDEX NAME)



PAGE 1-A

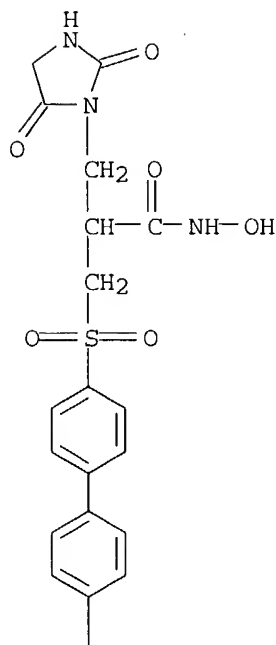


PAGE 2-A



RN 321584-62-7 CAPLUS  
CN 1-Imidazolidinepropanamide,  $\alpha$ -[[[4'-chloro[1,1'-biphenyl]-4-yl)sulfonyl]methyl]-N-hydroxy-2,5-dioxo- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



AB 3-Arylsulfonyl-2-methylpropanoic acid derivs. R<sub>2</sub>CH<sub>2</sub>CH(COX)CH<sub>2</sub>SO<sub>2</sub>C<sub>6</sub>H<sub>4</sub>R<sub>1</sub>-4  
 [I, X = HONH, HO; R<sub>1</sub> = Ph, 4-chlorophenyl, 4-fluorophenyl, 4-cyanophenyl, benzamido substituted benzamido; R<sub>2</sub> = SAr, SCH<sub>2</sub>Ar, OAr, SHet, SCH<sub>2</sub>Het (Het is a heterocyclic ring), 2,5-dioxo-1-imidazolidinyl, 2,4-dioxo-1-imidazolinyl], having potent and selective inhibitory activity against matrix metalloproteinases, were prepared E.g., 3-[(4-chloro[1,1'-biphenyl]-4-yl)sulfonyl]-2-[(phenylsulfanyl)methyl]propanoic acid was prepared  
 Inhibition of MMP-1 and MMP-2 by I was measured.

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=&gt; log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

10.39

166.02

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-1.39

-1.39

STN INTERNATIONAL LOGOFF AT 16:19:26 ON 02 MAR 2004

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NEWS 15 DEC 18 BIOTECHNO no longer updated  
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NEWS 17 DEC 22 Additional INPI reactions and pre-1907 documents added to CAS  
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NEWS 18 DEC 22 IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields  
NEWS 19 DEC 22 ABI-INFORM now available on STN  
NEWS 20 JAN 27 Source of Registration (SR) information in REGISTRY updated  
and searchable  
NEWS 21 JAN 27 A new search aid, the Company Name Thesaurus, available in  
CA/CAPplus  
NEWS 22 FEB 05 German (DE) application and patent publication number format  
changes  
  
NEWS EXPRESS DECEMBER 28 CURRENT WINDOWS VERSION IS V7.00, CURRENT  
MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),  
AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003  
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NEWS LOGIN Welcome Banner and News Items  
NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

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SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

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STRUCTURE FILE UPDATES: 1 MAR 2004 HIGHEST RN 656797-92-1

DICTIONARY FILE UPDATES: 1 MAR 2004 HIGHEST RN 656797-92-1

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

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Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

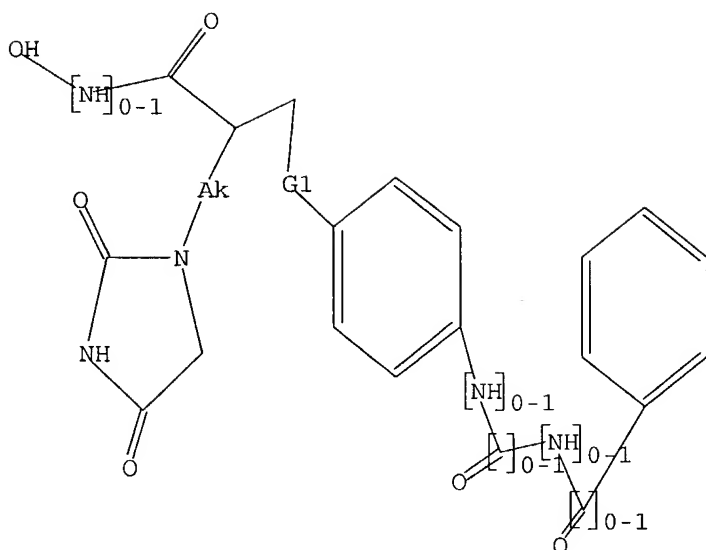
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L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



G1 S,SO2

Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss full

FULL SEARCH INITIATED 16:15:14 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 90 TO ITERATE

100.0% PROCESSED 90 ITERATIONS

3 ANSWERS

SEARCH TIME: 00.00.01

L2

3 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

155.42

155.63

FILE 'CAPLUS' ENTERED AT 16:15:28 ON 02 MAR 2004

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FILE COVERS 1907 - 2 Mar 2004 VOL 140 ISS 10

Patel

<3/2/2004>

FILE LAST UPDATED: 1 Mar 2004 (20040301/ED)

This file contains CAS Registry Numbers for easy and accurate  
substance identification.

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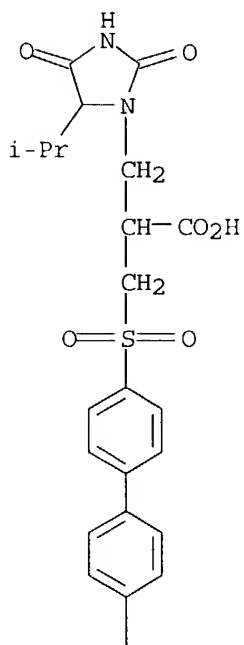
L3 1 L2

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L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 2001:63965 CAPLUS  
DN 134:131252  
TI Preparation of 3-arylsulfonyl-2-(substituted methyl)propanoic acid  
derivatives as matrix metalloproteinase inhibitors  
IN Mantegani, Sergio; Abrate, Francesca; Bissolino, Pierluigi; Cremonesi,  
Paolo; Perrone, Ettore; Jabes, Daniela  
PA Pharmacia and Upjohn Spa, Italy  
SO PCT Int. Appl., 68 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001005756	A1	20010125	WO 2000-EP6429	20000707
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				GB 1999-16562 A 19990714	
	EP 1200398	A1	20020502	EP 2000-954443	20000707
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				WO 2000-EP6429 W 20000707	
OS	MARPAT 134:131252				
IT	321585-62-0P 321585-64-2P 321585-92-6P				
	RL:	BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)			
		(preparation of 3-arylsulfonyl-2-(substituted methyl)propanoic acid derivs. as matrix metalloproteinase inhibitors)			
RN	321585-62-0 CAPLUS				
CN	1-Imidazolidinepropanoic acid, $\alpha$ -[[[4'-chloro[1,1'-biphenyl]-4-yl)sulfonyl]methyl]-5-(1-methylethyl)-2,4-dioxo- (9CI) (CA INDEX NAME)				

PAGE 1-A

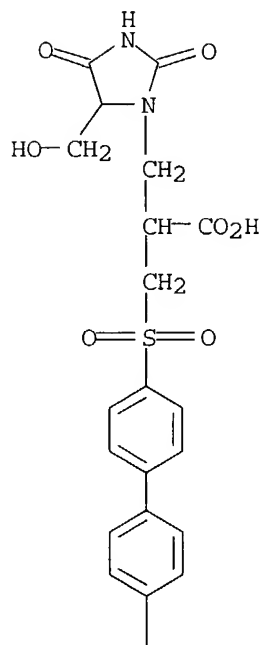


PAGE 2-A



RN 321585-64-2 CAPLUS  
CN 1-Imidazolidinepropanoic acid, α-[[[4'-chloro[1,1'-biphenyl]-4-yl)sulfonyl]methyl]-5-(hydroxymethyl)-2,4-dioxo- (9CI) (CA INDEX NAME)

PAGE 1-A



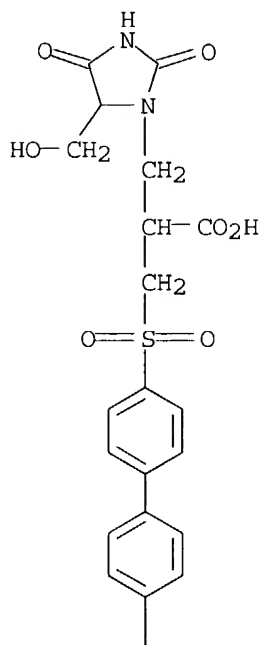
PAGE 2-A



RN 321585-92-6 CAPLUS  
CN 1-Imidazolidinepropanoic acid,  $\alpha$ -[[[4'-cyano[1,1'-biphenyl]-4-yl)sulfonyl]methyl]-5-(hydroxymethyl)-2,4-dioxo- (9CI) (CA INDEX NAME)



PAGE 1-A



PAGE 2-A



AB 3-Arylsulfonyl-2-methylpropanoic acid derivs. R<sub>2</sub>CH<sub>2</sub>CH(COX)CH<sub>2</sub>SO<sub>2</sub>C<sub>6</sub>H<sub>4</sub>R<sub>1</sub>-4 [I, X = HONH, HO; R<sub>1</sub> = Ph, 4-chlorophenyl, 4-fluorophenyl, 4-cyanophenyl, benzamido substituted benzamido; R<sub>2</sub> = SAr, SCH<sub>2</sub>Ar, OAr, SHet, SCH<sub>2</sub>Het (Het is a heterocyclic ring), 2,5-dioxo-1-imidazolidinyl, 2,4-dioxo-1-imidazolinyl], having potent and selective inhibitory activity against matrix metalloproteinases, were prepared E.g., 3-[(4-chloro[1,1'-biphenyl]-4-yl)sulfonyl]-2-[(phenylsulfonyl)methyl]propanoic acid was prepared Inhibition of MMP-1 and MMP-2 by I was measured.

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> log y

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
5.19	160.82

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-0.69	-0.69

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Patel

<3/2/2004>